

Title (en)

RAM-AIR SAMPLE COLLECTION DEVICE FOR A CHEMICAL WARFARE AGENT SENSOR

Title (de)

STAULUFT-PROBENNEHMER FÜR EINEN CHEMISCHEN KAMPFSTOFFSENSOR

Title (fr)

DISPOSITIF DE COLLECTE D'ECHANTILLON D'AIR DYNAMIQUE POUR CAPTEUR D'AGENT DE GUERRE CHIMIQUE

Publication

EP 1440309 A2 20040728 (EN)

Application

EP 02757563 A 20020904

Priority

- US 0228012 W 20020904
- US 96919601 A 20011001

Abstract (en)

[origin: US6442997B1] In a surface acoustic wave sensor mounted within a body, the sensor having a surface acoustic wave array detector and a micro-fabricated sample preconcentrator exposed on a surface of the body, an apparatus for collecting air for the sensor, comprising a housing operatively arranged to mount atop the body, the housing including a multi-stage channel having an inlet and an outlet, the channel having a first stage having a first height and width proximate the inlet, a second stage having a second lower height and width proximate the micro-fabricated sample preconcentrator, a third stage having a still lower third height and width proximate the surface acoustic wave array detector, and a fourth stage having a fourth height and width proximate the outlet, where the fourth height and width are substantially the same as the first height and width.

IPC 1-7

G01N 29/02

IPC 8 full level

G01N 27/64 (2006.01); **G01N 1/22** (2006.01); **G01N 29/00** (2006.01); **G01N 29/02** (2006.01); **G01N 29/22** (2006.01); **G01N 33/00** (2006.01); **G01N 1/02** (2006.01)

CPC (source: EP US)

G01N 1/2273 (2013.01 - EP US); **G01N 29/022** (2013.01 - EP US); **G01N 29/22** (2013.01 - EP US); **G01N 29/222** (2013.01 - EP US); **G01N 33/0036** (2013.01 - EP US); **G01N 2001/022** (2013.01 - EP US); **G01N 2001/2279** (2013.01 - EP US); **G01N 2001/2285** (2013.01 - EP US); **G01N 2291/0256** (2013.01 - EP US); **G01N 2291/0423** (2013.01 - EP US)

Citation (search report)

See references of WO 03029807A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

US 6442997 B1 20020903; AT E316241 T1 20060215; AU 2002323573 A1 20030414; CA 2430714 A1 20030410; CA 2430714 C 20070213; DE 60208800 D1 20060406; DE 60208800 T2 20060831; DK 1440309 T3 20060522; EP 1440309 A2 20040728; EP 1440309 B1 20060118; ES 2256517 T3 20060716; JP 2005510693 A 20050421; JP 4295103 B2 20090715; WO 03029807 A2 20030410; WO 03029807 A3 20030724

DOCDB simple family (application)

US 96919601 A 20011001; AT 02757563 T 20020904; AU 2002323573 A 20020904; CA 2430714 A 20020904; DE 60208800 T 20020904; DK 02757563 T 20020904; EP 02757563 A 20020904; ES 02757563 T 20020904; JP 2003532969 A 20020904; US 0228012 W 20020904